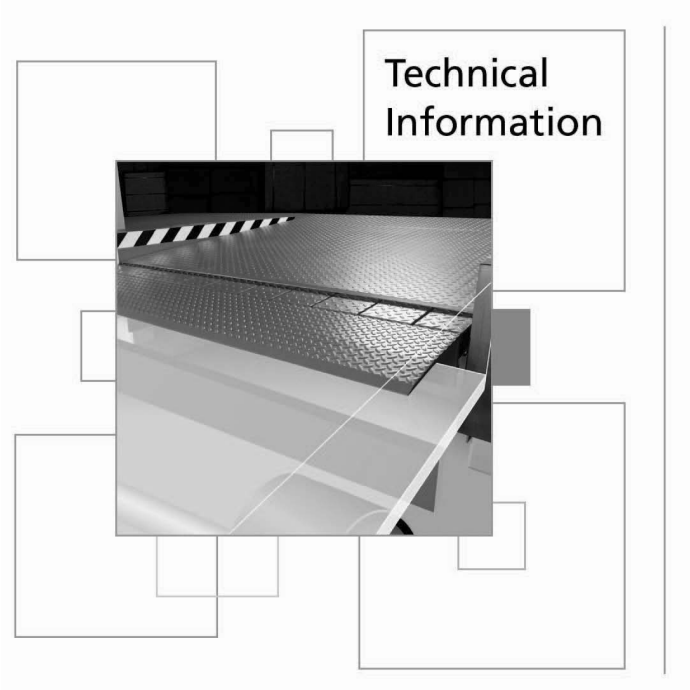
Crawford
620 Teledock
621 Autodock Teledock
622 Ergodock
623 Autodock Ergodock
624 Isodock
625 Teledock 100kN
with 950CC Docking control system

User manual



Crawford
Solutions that work

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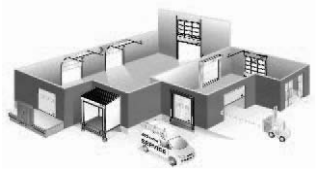
About Crawford

Crawford, solutions that work



Crawford has a world leading position as a solution provider in and around industrial and pedestrian door openings. The extensive program of doors and docking systems, combined with an incomparable service offer is the main reason why more than a million customers have chosen Crawford as their single supplier for efficient and trouble-free operations.

Crawford is part of the Swedish public engineering group Cardo, which has an annual turnover of close to 850 million euro and a strong international position in the areas of Doors, Docking and Pumps. With some 2 million industrial doors and docking systems sold worldwide and with 3,000 dedicated specialists, Crawford is able to help you find the solution most suitable to your situation, as well as modifications and upgrades when needs change.

Our relationship continues

Your industrial doors and docking systems are an essential part of your business – regardless of their age or manufacturer. That is why it makes sense to plan their maintenance before expensive and disruptive repairs are necessary.

A Crawford Service Agreement is your best assurance of safe and trouble-free equipment operation. Not only does it reduce the risk of breakdowns, it guarantees regulatory compliance and ensures that your doors and docking systems maintain their classifications.

You can choose from four different types of Crawford Service Agreement, based on the role of your doors and docking systems, and the intensity with which you use them. This lets you achieve the perfect balance of economy, safety and security.

Your Local Crawford Service Centre

It is recommended that you contact your local Crawford service centre for details about Key Service agreements available for your Crawford dock leveller.

The manufacturer of this dock leveller

Crawford Group AB
Roskildevägen 1
SE 20124 Malmö
Sweden
info-se@crawfordsolutions.com

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1. Introduction

This user manual is the english original user manual.

Caution!
All users and owners of the Crawford dock leveller operated by a docking control system must read, understand and obey the information and instructions in this manual. Failure to do so may result in damage to, or failure of the equipment, and possible injury to persons.

1.1 General guidelines

1.1.1 Correct Operating Instructions

Before you continue reading, please ensure that you have the correct operating instructions. In case you use a Crawford overhead sectional door at your loading bay refer to the separate user manual of your door as well.

1.1.2 Target Group

These operating instructions are intended for users of dock levellers and all persons involved in the installation, operation, preventive maintenance and repair of the dock leveller. Only authorised and fully trained persons who have been informed in detail about the possible risks are allowed to operate the dock leveller.

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1.1.3 Purpose of these Operating Instructions

This user manual is intended;

- To enable users and engineers to operate and maintain the equipment.
- To minimise the risk to the life and health of the operator or of a third party.

1.1.4 Users Responsibility

The user of the dock leveller must ensure:

- that all persons involved in the installation, maintenance or repair of the dock leveller have read and understood the entire scope of these operating instructions.
- that any person who is authorised to operate the dock leveller has been thoroughly trained and fully informed about possible risks.

Note!
Always observe the Health and Safety Regulations which apply to your company. If you have any queries, please contact Crawford.

1.2 Comments on the illustrations

The pictures in these operating instructions, are drawn as an illustration. Some pictures are simplified for reasons of clarity. In analogy to this we abandon showing a separate picture of an Autodock. The actual specifications depend on the individual dock leveller supplied.

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2. Safety

2.1 General Safety Statement

The Crawford dock leveller is designed to meet all safety requirements in the European Directives and the standards issued by the European Standardization Committee, CEN.

2.2 Safety Instructions

The dock leveller is designed and constructed to operate at maximum safety levels. However, the manufacturers cannot be held responsible for accidents or damage to the dock leveller if the following safety instructions are not observed.

- The dock leveller must only be operated by trained, authorised personnel.
- The dock leveller must be disconnected and immobilised before installation, resetting, commissioning, maintenance and repair.
- Safety equipment must not be removed or to be set out of order.
- Avoid all actions that could adversely affect the operation of the dock leveller.
- No alterations may be made to the dock leveller without the prior consent of the manufacturer.
- Only operate the dock leveller if it is in perfect working order. Any faults must be reported to the person in charge immediately.
- All the regulations relating to dock levellers, even those not specially mentioned in this manual, must be adhered to. Always observe the accident prevention regulations laid down by the company.
- Ensure a firm footing when operating the dock leveller.
- While loading/unloading the lip has to lie firmly with a minimum of 100 mm and over its whole width on the vehicle bed.
- Traffic on the dock leveller must not weigh more than the load capacity of the leveller.
- The maximum speed of the forklift driving on the dock leveller platform is 7 km/h.
- The dock leveller must not be used outside the permitted gradient of ± 12,5 (appox. ± 7°) and the limitations of the docking vehicle in use.
- Read and fully understand the safety instructions before you operate or do maintenance on the dock leveller.
- Always obey local health and safety regulations when you operate or do maintenance on the dock leveller.
- Make sure there are no persons or equipment in the working area of the dock leveller on top, below, in front and on both sides before you operate the dock leveller.
- Hydraulic fluid is poisonous and can cause damage to skin and internal organs. Always wear the correct protective clothing and equipment when you do work on hydraulic systems.
- Do not operate the dock leveller when there is a vehicle or other load on it.

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- Do not drive a fork-lift truck or other vehicle on the dock leveller if the vehicle is wider than the width of the dock leveller minus 70 cm.
- Do not use the dock leveller to move persons.
- Do not operate the dock leveller after the date of the next scheduled maintenance. The date of the next scheduled maintenance is shown in the logbook.
- Always move the dock leveller to the fully up position and install the safety prop before you do maintenance on the dock leveller.
- Dock levellers shall not be operated in combination with vehicle tail lifts unless the tail lift is explicitly designed for that purpose.
- The vehicle shall be positioned not more than 200 mm from the loading dock if the nominal width of the dock leveller is less than 1250 mm.
- When not in use the dock leveller shall be returned their stored position immediately.
- All necessary actions have to be taken to ensure that the vehicle does not depart before the dock leveller has returned to the cross-traffic position.

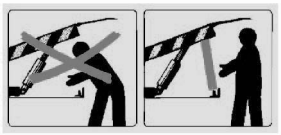
2.3 Safety Symbols and marks on the dock leveller

The following symbols are attached to the dock leveller at dangerous points:

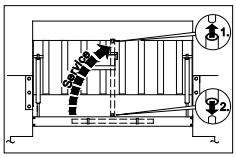
Black and yellow warning stripes indicate a trip hazard.

Orange warning colours at the side plates and frame show that the leveller operates out of the allowed gradient range of ± 12.5% (approx. ± 7°). The gradient range may only be exceeded if the operator ensures that the danger of slipping has been eliminated (for example due to dry and clean surfaces).

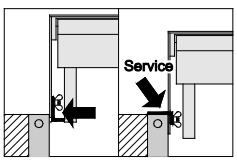
A general warning triangle on the hydraulic reservoir indicates a maintenance hazard.



A warning sign indicating: Do not enter under this leveller unless it is mechanically locked.



A sticker on the front of the leveller shows how to install the safety prop.



A sticker on the front of the leveller shows how to install the safety prop.
The illustration in use is depending on your specific leveller (page 24)

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2.4 Safety symbols used in this manual

Note:	Additional tips and recommendations for the reader
Caution:	A caution identifies a condition where equipment can be damaged.
Danger:	Danger identifies a condition where special precautions must be used to prevent death.

Indications and warnings within the text are illustrated by means of symbols. The symbols have the following meaning:

Caution: Identifies a condition where equipment can be damaged.
Danger: Identifies a condition where special precautions must be used to prevent death.
Warning: Identifies a condition where an injury to a person can occur.

Danger!
Electrical Hazard!

Danger!
Toxic Hazard!

Attention!
Un-allowed procedure

Note!
Supplemental information

2.5 Correct use

The dock leveller's function is to fill in the gap (in height and distance) between the warehouse floor and the truck floor (trailer).

Driving on the dock leveller is only allowed
- if the lip is securely resting on the vehicle bed and there is neither an error indication on the display nor a flashing Service LED or
- if the dock leveller is in its cross-traffic position.
The load on the dock leveller must not exceed the load capacity quoted on the identification plate.
The maximum speed of the forklift driving on the dock leveller platform is 7 km/h.
The dock leveller must not be operated above or below the permitted maximum gradient of ± 12.5 % (approx. ± 7°) or the limitations of the docking vehicle in use as stated in European safety standards.

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2.6 Misuse

Any other use of the dock leveller other than described in chapter "Correct use" is deemed to be misuse.

Misuse refers in particular to:

- driving over the dock leveller carrying a load exceeding that stated on the specification plate,
- driving over the dock leveller with lift trucks which are wider than the nominal width of the dock leveller minus 700 mm,
- exceeding the maximum speed of 7 km/h of the forklift truck driving on the dock leveller platform,
- operating the leveller whilst under load,
- transporting persons,
- usage of hydraulic oil not approved by Crawford.

2.7 Unsafe operating practices

- If there is an error indication on the display or the Service LED is flashing, driving on the dock leveller is not safe.
- Do not operate the dock leveller after expiry of the maintenance period. The next service date is marked in the log book.
- Do not operate the dock leveller if it is malfunctioning or damage has been detected.
- Do not operate the dock leveller if the lip is not resting firmly on the vehicle bed across its whole width with a minimum of 100mm.
- Do not operate the dock leveller if the vehicle to be loaded/unloaded is not securely parked.

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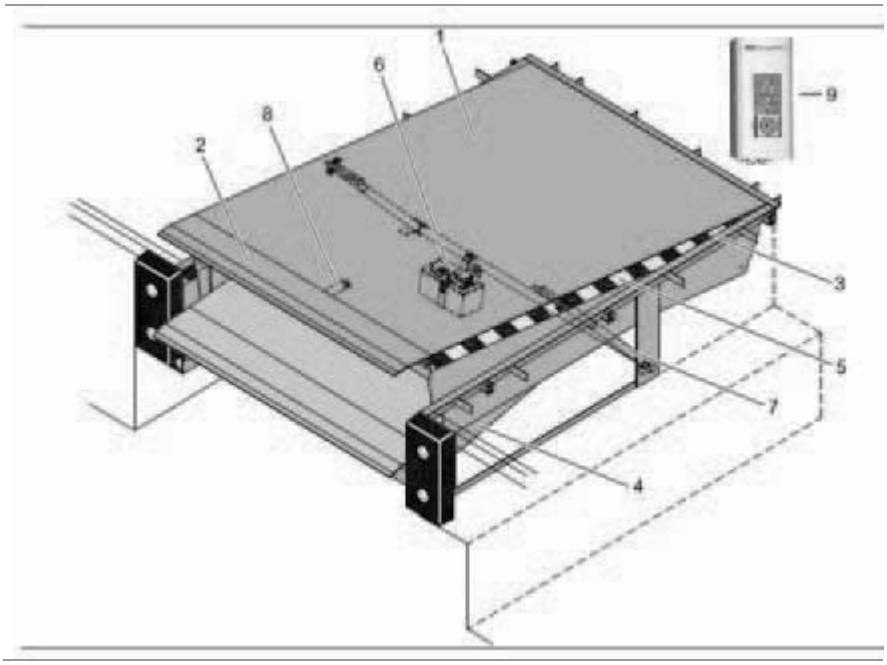
3. Description

3.1 General

The Crawford dock leveller meets the standard demands of most loading operations and fully complies with rules and regulations of the European Standard EN 1398.

3.2 Safety relevant spare parts



1. Platform
2. Telescopic lip
3. Frame
4. Warning stripes
5. Hydraulic unit
6. Lift cylinders
7. Lip cylinder
8. Control unit

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3.3 Mode of use

The dock levellers bridges the gap (height and distance) between the warehouse floor and the truck floor (trailer). It also adjusts to the variations in height of the vehicle bed during loading and unloading.

The dock leveller essentially consists of a platform of which the rear end is supported by a hinge at dock height and of which the front end is provided with a telescopic lip. For the loading operating, the lip is extended, thus lengthening the leveller to the front, and then lowered onto the vehicle bed.

In this free floating position the dock leveller forms a gradient that automatically adjusts to the height fluctuation of the vehicle and allows mechanical handling equipment to pass from the warehouse floor level onto the vehicle bed.

The leveller platform adjusts to sloping lorry beds by distorting laterally while the lip has to lie firmly with a minimum of 100 mm wide and over its entire width on the lorry bed. In the cross-traffic (parked) position the dock leveller is fully supported.

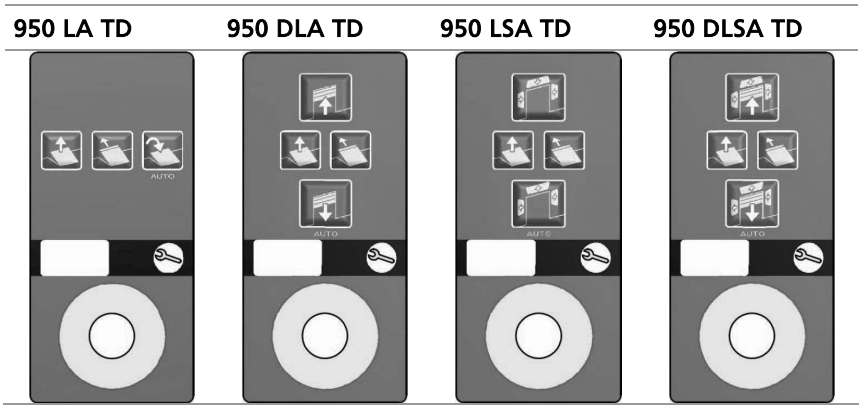
The dock leveller is operated electro-hydraulically. The platform is raised and lowered by two hydraulic lift cylinders and the lip is controlled by a hydraulic lip cylinder. The hydraulic unit and the hydraulic cylinders are located beneath the leveller platform. The electronic controls are housed in a control unit usually installed on the wall.

3.4 Operating functions

3.4.1 General

Caution! Always follow the steps shown on the operating instruction plate installed next to the control unit!

3.4.2 Operating functions for swing lip levellers



TD = Teledock
L = Leveller
A = Auto Button
D = Door
S = Shelter

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3.4.2.1 Standard functions

Lift

By keeping the "Lift" button pressed, the dock leveller will rise. When the button is released, the dock leveller will sink under its own weight.

Lip button

If the "Lip" button is pressed, the lip extends out from underneath the platform and the lifting and lowering function is blocked. When the button is released, the platform will sink under its own weight.

AUTO button - LA

By pressing the "AUTO" button, the dock leveller will automatically return to its cross-traffic position.

3.4.2.2 Optional functions

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Door OPEN button – DLA

Press and release the door open button and the door opens into fully open position. A second press will stop an opening door.

AUTO button - DLA

By pressing the "AUTO" button, the dock leveller will automatically return to its cross-traffic position and the door closes. A second press will stop an opening door.

Shelter INFLATE button - LSA

Press and release the shelter inflate button and the shelter inflates completely.

AUTO button - LSA

By pressing the "AUTO" button, the dock leveller will automatically return to its cross-traffic position and the shelter deflates.

Door OPEN & Shelter INFLATE button - DLSA TD

Press and release the door open & inflate shelter button and the shelter inflates completely and the door opens into fully open position. A second press will stop an opening door.

AUTO button - DLSA

By pressing the "AUTO" button, the dock leveller will automatically return to its cross-traffic position, the door closes and the shelter deflates. A second press will stop an opening door.

3.4.3 Main switch and Emergency Stop button

A main switch (MS) or an emergency stop button (ES) is installed on the docking control system of the leveller.

Main switch (MS)

A leveller with a docking control system MS has a rotary switch.

Turn the handle counter clockwise and all functions stop (0 = OFF, 1 = ON). The mains supply is interrupted.

Emergency stop button (ES)

A leveller with a docking control system ES has a push button.

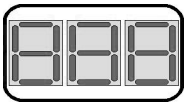
Press and release the red button and all functions stop. Turn the button clockwise to release.

3.4.4 Indications in the display

Maintenance indicator

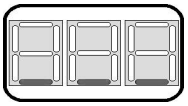
When this symbol illuminates, maintenance of the dock leveller is necessary.

If symbol flashes, leveller and door is blocked after lost and restored main supply.

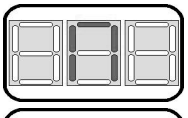


Three-digit display

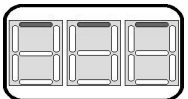
Error indicator and indicator for operational states.



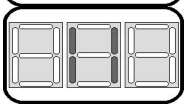
Indicating leveller is in resting position, door is closed (CDM9 and S9 sensor) and shelter is off.



Flashing when shelter starts until shelter is inflated and door is open.



Indicating opened door (CDM9 or S9 sensor).



Indicating leveller is in motion.

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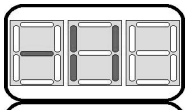
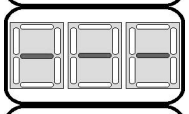
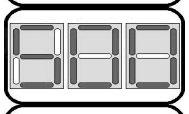
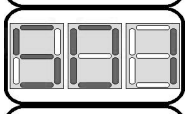
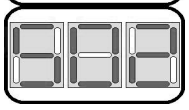
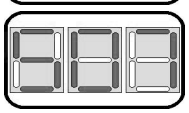

Indicating lip is activated.

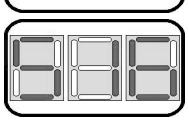

Indicating dock leveller is in free floating position.

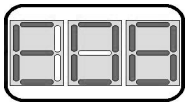

"Winter mode" – the shelter function is activated.

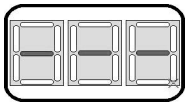

"Summer mode" – the shelter function is not activated.

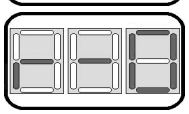

CrawfordEYE does not detect a vehicle. Loading bay is empty. (Only when CrawfordEYE is connected!).


Wheel Chock does not detect a vehicle. Loading bay is empty. (Only when Wheel Chock is connected!).


Shelter photocell does not detect a vehicle and door is not fully open. Loading bay is empty.
(Only when Shelter photocell is connected!).


External Emergency Stop Push Button is pressed (S14 sensor). (Only when External Emergency Stop Push Button is connected!).


A dot in the lower right corner of the display indicates that the automatic closing of the door is activated.


Control unit is locked by Crawford Monitoring system or Lock Bolt on the door.

3.5 Technical data of the dock leveller

A separate manual "Technical data" for your specific Crawford dock leveller is available on request.

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4. Operation

4.1 General

This section describes the complete operation of the dock leveller. In order to ensure safe operation of this equipment the following safety instructions must be observed.

Caution!
Make sure that the installation has been carried out by engineers from Crawford or authorised and specially trained persons according to the separately delivered installation manual!

Caution!
Make sure there are no persons or equipment in the working area of the dock leveller on top, below, in front and on both sides before you operate the dock leveller.

Caution!
The dock leveller may be operated by trained persons (minimum age 18 years) only. The user has to ensure that all persons concerned have understood the instructions. During operation, the movement of the dock leveller must be closely watched.

Caution!
In case of emergency, turn the yellow-red main switch to "O-OFF" or push the emergency stop button (option) and interrupt the main supply. Any movement of the dock leveller will then be interrupted.
Any movement of the dock leveller is immediately interrupted if
-the main switch is switched to "O-OFF"
-the emergency stop button is pushed
- the mains supply is interrupted

Attention!

After any interruption to the power supply, the button *must be pressed after restoration of the supply.*

This is indicated by the flashing maintenance symbol *and three flashing lines on middle position.*
The dock leveller will then return to the floating mode.

Attention!
Control unit buttons are ignored if:
- the door interlock is switched off
- the Wheel chock signal is lost (may be reconfigured see separate user manual)
- the Lock bolt signal is lost or
- the CrawfordEye signal is lost (may be reconfigured see separate user manual)

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Caution!
During the loading operation and after having pressed the push button "Lift", the main switch must be at "1-ON" or the emergency push stop button must be released. Otherwise the dock leveller will not follow the height fluctuations of the vehicle.

4.2 Daily start up procedure

1. Before operating the dock leveller, visually inspect the dock leveller for safety reasons.
2. If no faults are found, the dock leveller can be put into operation.
3. Within one second after the power supply has been connected the maintenance symbol and three lines on middle position flash.
4. Press the button to put the leveller into floating mode.

4.3 Test run

In order to ensure safe operation of the dock leveller, commissioning is to be carried out only by qualified and trained specialists. A test run is required to make sure that all operating functions of the dock leveller are working. (page 31) If all operating functions work correctly, the dock leveller is ready for use.

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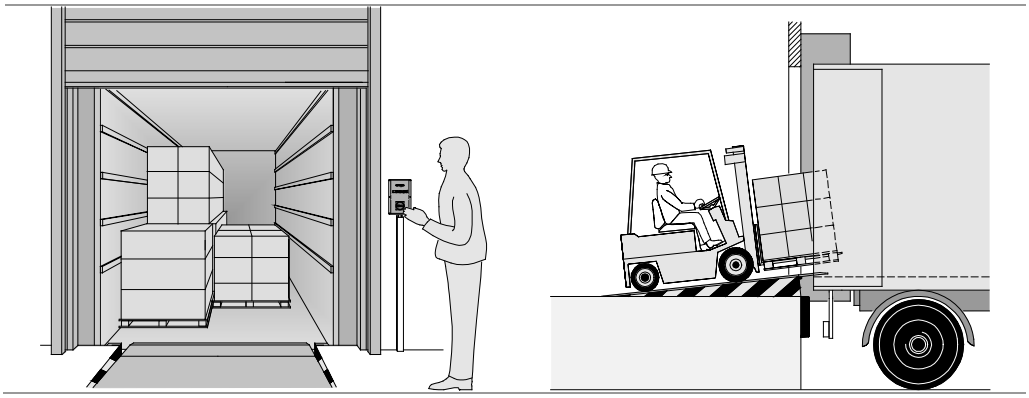
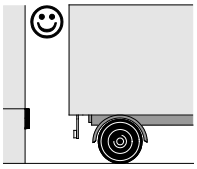
4.4 Operation of the dockleveller

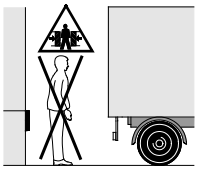


4.4.1 Docking the vehicle

Note!
If the dock leveller is provided with the optional door interlock, the power to operate the leveller will be isolated until the door has been opened.

Attention!
Do not operate the leveller in combination with vehicle tail lifts unless the tail lift is explicitly designed for that purpose.





Attention!
Make sure that no one is between vehicle and loading dock when the truck is moving towards the leveller!

1. Back up the vehicle with open tail-gate or lowered tail-lift.
2. Make sure the vehicle is secure and cannot roll or drive away.
3. Under no circumstances open the loading bay door before the vehicle is securely parked.

4.4.2 Positioning the lip on the vehicle bed

4.4.2.1 General

Caution!
Do not allow anyone to be in the vicinity of the dock leveller while it is being raised or lowered. If there is a fault, switch the main switch to "O-OFF" or press the emergency stop button to interrupt any movement of the dock leveller.

Caution!
During loading/unloading, the dock leveller must rest with a minimum of 100 mm securely over its whole width on the vehicle.

- Make sure the Daily start procedure has been done.
- Make sure the tail-gate or tail-lift of the vehicle is in the open position.
- Make sure the vehicle is properly positioned.
- Make sure the vehicle parking brake is on, and if necessary, install chocks to prevent movement of the vehicle.

Attention!
Make sure that the lip is not resting on the tail lift!

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4.4.2.2 Docking procedure LA TD

1. Before loading/unloading make sure the mains supply is activated. In case docking control system MS is in use turn the mains isolator to "1-ON". Do not switch off the mains supply during the loading operation!
2. Press and hold the button until the platform is well above vehicle bed level.
3. Press and hold the button to extend the telescopic lip.

Caution!
If the dock leveller is equipped with optional retracting tongues, the width will automatically be reduced to accommodate narrower vehicles.

4. Release the button and make sure the lip lowers onto the vehicle bed, resting at least 100 mm deep on the vehicle bed.
5. Make sure the gradient of the platform is in limits (orange warning marks may not be visible).
6. Loading/unloading can now take place.

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4.4.2.3 Docking procedure DLA TD, LSA TD & DLSA TD

1. Before loading/unloading make sure the mains supply is activated. In case docking control system MS is in use turn the mains isolator to "1-ON". Do not switch off the mains supply during the loading operation!
2. Make sure that the pass-door (optional) is closed correctly.
3. Press and release the or or button to inflate the shelter and/or open the door.
4. Press and hold the button until the platform is well above vehicle bed level.
5. Press and hold the button to extend the telescopic lip.

Caution!
If the dock leveller is equipped with optional retracting tongues, the width will automatically be reduced to accommodate narrower vehicles.

6. Release the button and make sure the lip lowers onto the vehicle bed, resting at least 100 mm deep on the vehicle bed.
7. Make sure the gradient of the platform is in limits (orange warning marks may not be visible).
8. Loading/unloading can now take place.

4.4.3 Releasing the vehicle

4.4.3.1 General

Caution!
After the loading operation, the dock leveller has to be returned to cross-traffic position immediately

Attention!
Do not leave the loading bay before the leveller has returned to cross-traffic position.

Caution!
Make sure there are no persons or equipment on or under the platform.

4.4.3.2 Releasing procedure LA TD & LSA TD

1. After the loading operation is finished press and release the

or

button to return the dock leveller to cross traffic position and deflate the shelter in one manoeuvre.

Caution!
If the loading dock has a door this must then be securely closed.

2. The vehicle can leave the loading dock.

4.4.3.3 Releasing procedure DLA TD & DLSA TD

1. After the loading operation is finished press and release the

or

to return the dock leveller to cross traffic position, close the door and deflate the shelter.in one manoeuvre.
2. The vehicle can leave the loading dock.

4.5 Daily shut down procedure

1. Move the dock leveller to the cross-traffic position.
2. Switch off the mains supply to shut down the dock leveller.
   - In case of operating system MS, turn the main switch to "O-OFF".
   - In case of operating system ES, deactivate the main supply.
3. The dock leveller has now been taken out of commission.

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5. Maintenance

5.1 General remarks on maintenance work

The dock leveller is designed to keep maintenance to a minimum. Safe operation is only ensured if maintenance work is carried out at regular intervals.

Note!
Carry out a visual inspection every day.

Dock levellers must be given a safety inspection by a trained service engineer before first commissioning and thereafter at least once a year. Dock levellers must also be inspected after important repair work, e.g. welding of load bearing components. The extent of the inspection to be carried out depends on the scope of the repair work. The user must keep a written report containing the results of the inspection, including the date, name, address and signature of the person who has carried out the inspection.

Danger!
Before undertaking any electrical work the dock leveller must be disconnected and isolated.
Only trained and authorised persons should undertake electrical work on the dock leveller.

Caution!
Before undertaking any maintenance work make sure that the work place is sufficiently illuminated.

Caution!
Before undertaking any maintenance work make sure to wear a helmet!

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5.2 Preventive maintenance schedule

5.2.1 Maintenance by the user

Frequency	Part	Tasks
Daily	Platform and telescopic lip	Clean the platform and the telescopic lip. (page 23)
		Do the Daily start up procedure.
		Do the Daily shut down procedure (page 21)
Monthly	Platform and telescopic lip	Inspect the platform, telescopic lip and frame for any damage.
	Electrical system	Inspect the electrical system (page 27).
	Hydraulic system	Inspect the hydraulic system (page 27).
	Dock leveller	Lubricate the dock leveller.
		Do the functional test of the dock leveller (page 31).

5.2.2 Maintenance by service engineer

Frequency	Part	Tasks
Every year	Safety	Inspect for wear and tear Inspect the functionality Inspect the functioning of safety devices
Every 2 years	Hydraulic system	Replace the hydraulic oil
Every 6 years	Hydraulic system	Replace the hoses

Note!
Depending on the cycles per day shorter frequencies may be applicable!

5.3 Preventive maintenance procedures

5.3.1 Clean the Platform and the telescopic lip

Danger!
Electrically disconnect and immobilize the dock leveller before you do maintenance on the dock leveller.

1. Make sure the dock leveller is in the cross-traffic position.
2. Deactivate the electrical connection
   - If a docking control system MS is installed turn the electrical isolation switch to the "O-OFF" position.
   - If a docking control system ES is installed press the emergency stop button.
3. Use suitable cleaning materials to clean the platform and the swing lip.
4. Activate the electrical connection
   - If a docking control system MS is installed, turn the electrical isolation switch to the "1-ON" position.
   - If a docking control system ES is installed turn the emergency stop button 90° clockwise to reset the emergency stop button.

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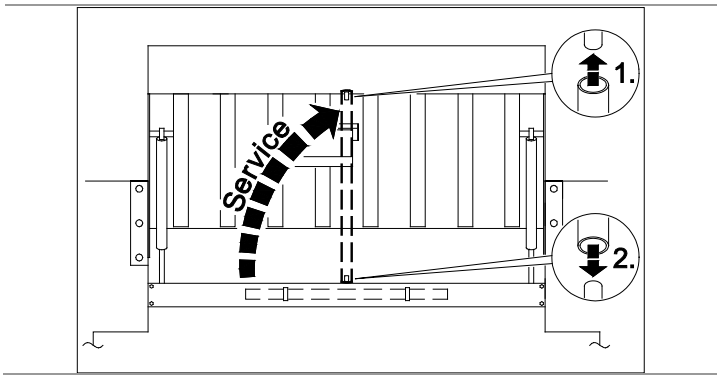
5.3.2 Type of safety prop

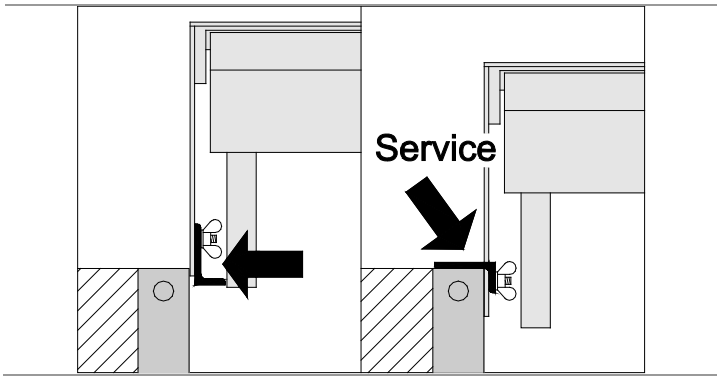
Depending on the type of leveller different types of safety props are in use.

5.3.2.1 Safety prop Type I



Used for Crawford dock leveller types: 620 Teledock (≤ 3000 mm), 621 Autodock T, 622 Ergodock, 623 Autodock E

5.3.2.2 Safety prop Type II



Used for Crawford dock leveller types: 624 Isodock, 625 Teledock 100kN, TeleDOCK (≥ 3500mm)

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5.3.3 Install the safety prop

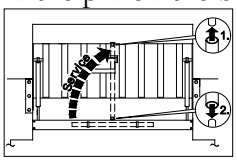
Caution!
Make sure there are no persons or equipment in the working area of the dock leveller on top, below, in front and on both sides before you operate the dock leveller.

Caution!
Do not operate the dock leveller if the maintenance indicator or the control indicator is on. If the maintenance indicator or the control indicator is on, switch off the main electrical supply to the dock leveller and contact the local service centre.

5.3.3.1 Installation of safety prop type I

Installation of safety prop type I with docking control system MS

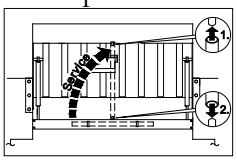
1. Move the safety prop from the storage position.
2. Turn the main switch to the "1-ON" position.
3. Press and hold the button until the platform is in the fully up position.
4. Turn the main switch to the "O-OFF" position.
5. Release the button.
6. Refer to the sticker on the dock leveller and engage the top of the safety prop in the pin on the bottom of the platform (1).

   Push the safety prop vertically onto the pin mounted onto the cross member (2).
7. Turn the main switch to the "1-ON" position.
8. Press and release the button.
9. Make sure the platform goes down until it rests firmly on the safety prop.
10. Turn the main switch to the "O-OFF" position.
11. Install a padlock on the main switch to prevent operation of the switch.

Installation of safety prop type I with docking control system ES

1. Move the safety prop from the storage position.
2. Turn the emergency stop button 90° clockwise to reset the emergency stop button.
3. Press and hold the button until the platform is in the fully up position.
4. Press the emergency stop button.
5. Release the button.
6. Refer to the sticker on the dock leveller and engage the top of the safety prop in the pin on the bottom of the platform (1).

   Push the safety prop vertically onto the pin mounted onto the cross member (2).
7. Turn the emergency stop button 90° clockwise to reset the emergency stop button.
8. Press and release the button.
9. Make sure the platform goes down until it rests firmly on the safety prop.

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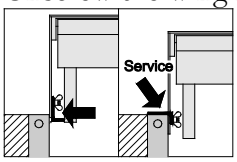
10. Press the emergency stop button.
11. Disconnect the main electrical supply from the dock leveller and secure it against restoration.

5.3.3.2 Installation of safety prop type II

Installation of safety prop type II with docking control system MS

1. Turn the main switch to the "1-ON" position.
2. Press and hold the button until the platform is in the fully up position.
3. Turn the main switch to the "O-OFF" position.
4. Release the button.
5. Unscrew the wing nuts and remove the two safety props.

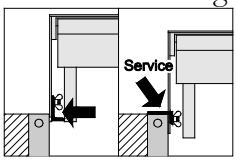


Put the safety props onto the bolts so that the short sides are laying against the platform sides and the long sides are facing the outside of the dock leveller. Secure the safety props with the wing nuts (Service).

6. Turn the main switch to the "1-ON" position.
7. Press and release the button.
8. Make sure the platform goes down until it rests firmly on the safety prop.
9. Turn the main switch to the "O-OFF" position.
10. Install a padlock on the main switch to prevent operation of the switch.

Installation of safety prop type II with docking control system ES

1. Turn the emergency stop button 90° clockwise to reset the emergency stop button.
2. Press and hold the button until the platform is in the fully up position.
3. Press the emergency stop button.
4. Release the button.
5. Unscrew the wing nuts and remove the two safety props.



Put the safety props onto the bolts so that the short sides are laying against the platform sides and the long sides are facing the outside of the dock leveller. Secure the safety props with the wing nuts (Service).

6. Turn the emergency stop button 90° clockwise to reset the emergency stop button.
7. Press and release the button.

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8. Make sure the platform goes down until it rests firmly on the safety prop.
9. Press the emergency stop button.
10. Disconnect the main electrical supply from the dock leveller and secure it against restoration.

5.3.4 Inspect the platform, lip and support frame for damage

Danger!
Install the safety prop (page 24) and electrically disconnect the dock leveller before you do maintenance on the dock leveller.

1. Inspect the platform, telescopic lip and support frame for the following defects:
   - Damage to the anti-slip surface and protective coatings
   - Corrosion
   - Cracks
2. Make sure:
   - The safety symbols and marks are visible
   - There is sufficient grease on the hinges.
3. If defects are found, contact the local service centre.
4. Remove all tools and equipment from the area.

5.3.5 Inspect the Electrical System

Danger!
Install the safety prop (page 24) and electrically disconnect the dock leveller before you do maintenance on the dock leveller.

1. Inspect the electrical cables for damage and corrosion.
2. Make sure:
   - The electrical connections are secure
   - The electrical cables are correctly attached to the dock leveller.
   - The earth connections are secure and correctly attached to the dock leveller and the building structure.
3. If defects are found, contact the local service centre.
4. Remove all tools and equipment from the area.

5.3.6 Inspect the Hydraulic System

Danger!
Install the safety prop (page 24) and electrically disconnect the dock leveller before you do maintenance on the dock leveller.

Danger!
Hydraulic fluid is poisonous and can cause damage to skin and internal organs. Always wear the correct protective clothing and equipment when you do work on hydraulic systems.

1. Inspect the hydraulic unit, hoses and cylinders for damage, corrosion and leaks.
2. Make sure:
   - The hydraulic connections are secure

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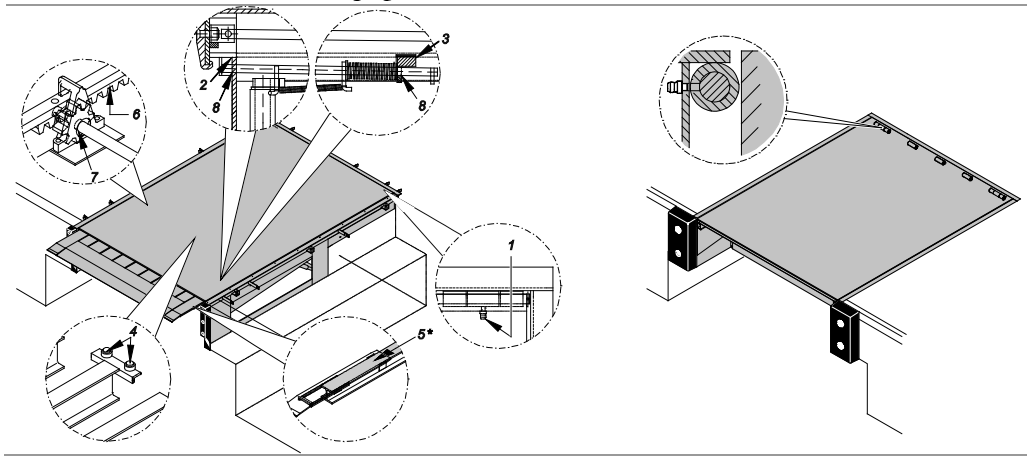
- The hydraulic hoses are correctly attached to the dock leveller
- The date on the hydraulic hoses shows that the hydraulic hoses are less than 6 years old
- The hydraulic fluid is not longer than two years in use.

3. If defects are found, contact the local service centre.
4. Remove all tools and equipment from the area.

5.3.7 Lubricate the dock leveller

Danger!
Install the safety prop (page 24) and electrically disconnect the dock leveller before you do maintenance on the dock leveller.

1. Use a suitable grease gun and a clean cloth to apply grease to:
   - The hinges at the rear end of the platform (use the grease nipples) (1)
   - Sliding surfaces of the lip (2)
   - Under side of the lip supports (3)
   - Sliding surfaces of the lip guide (4)
   - Sliding surfaces of the retraction tongues (5)
   - Pinion (6)
   - Bearings of the rack with oil (7)
   - The guides of the push bar (8)
2. Use suitable cleaning materials to remove all excess grease.
3. Remove all tools and equipment from the area.



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5.3.8 Remove the safety prop

Caution!
Make sure there are no persons or equipment in the working area of the dock leveller (on top, below, in front and on both sides) before you operate the dock leveller.

Caution!
Do not operate the dock leveller if the maintenance indicator or the control indicator is illuminated. If the maintenance indicator or the control indicator is illuminated, switch off the main electrical supply to the dock leveller and contact the local service centre.

5.3.8.1 Remove safety prop type I

Remove safety prop type I with docking control system MS

1. Remove the padlock from the main switch.
2. Turn the main switch to the"1-ON" position.
3. Press and hold the button until the platform is in the fully up position.
4. Turn the main switch to the "O-OFF" position.
5. Release the button.
6. Disconnect the top of the safety prop from the pin on the bottom of the platform.
7. Turn the main switch to the"1-ON" position.
8. Press and release the button.
9. Make sure the platform goes down to the cross-traffic position.
10. Turn the main switch to the "O-OFF" position.
11. Place the safety prop in its storage position.

Remove safety prop type I with docking control system ES

1. Connect the main electrical supply to the dock leveller.
2. Turn the emergency stop button 90° clockwise to reset the emergency stop button.
3. Press and hold the button until the platform is in the fully up position.
4. Press the emergency stop button.
5. Release the button.
6. Disconnect the top of the safety prop from the pin on the bottom of the platform.
7. Turn the emergency stop button 90° clockwise to reset the emergency stop button.
8. Press and release the button.
9. Make sure the platform goes down to the cross-traffic position.
10. Place the safety prop in its storage position.

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5.3.8.2 Remove safety prop type II

Remove safety prop type II with docking control system MS

1. Remove the padlock from the main switch.
2. Turn the main switch to the"1-ON" position.
3. Press and hold the button until the platform is in the fully up position.
4. Turn the main switch to the "O-OFF" position.
5. Release the button.
6. Unscrew the wing nuts and remove the two safety props.
7. Put the safety props onto the bolts so that the long sides are laying against the platform sides and the short sides are facing the ground floor.
8. Secure the safety props with the wing nuts.
9. Turn the main switch to the"1-ON" position.
10. Press and release the button.
11. Make sure the platform goes down to the cross-traffic position.
12. Turn the main switch to the "O-OFF" position.

Remove safety prop type II with docking control system ES

1. Connect the main electrical supply to the dock leveller.
2. Turn the emergency stop button 90° clockwise to reset the emergency stop button.
3. Press and hold the button until the platform is in the fully up position.
4. Press the emergency stop button.
5. Release the button.
6. Unscrew the wing nuts and remove the two safety props.
7. Put the safety props onto the bolts so that the long sides are laying against the platform sides and the short sides are facing the ground floor.
8. Secure the safety props with the wing nuts.
9. Turn the emergency stop button 90° clockwise to reset the emergency stop button.
10. Press and release the button.
11. Make sure the platform goes down to the cross-traffic position.

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6. Test and Adjustments

6.1 General

Caution!
Make sure there are no persons or equipment in the working area of the dock leveller before you operate the dock leveller.

Caution!
Do not operate the dock leveller if the maintenance indicator or the control indicator is on. If the maintenance indicator or the control indicator is on, switch off the main electrical supply to the dock leveller and contact the local service centre.

Danger!
*Install the safety prop (page **24**) and electrically disconnect the dock leveller before you do maintenance on the dock leveller.*

6.2 Functional test with 950 docking control system MS

1. Turn the main switch to the "O-OFF" position.
2. If available press and release the or or button and make sure:
   - The shelter does not inflate
   - The door stays closed.
3. Press the button.
4. Make sure:
   - The hydraulic unit does not start
   - The platform does not move.
5. Turn the main switch to the"1-ON" position.
6. If available press and release the or or button and make sure:
   - The shelter inflates completely
   - The door opens afterwards.
7. If available press and release the or button and make sure that the door movement stops.
8. If available press and release the or button and make sure that the door opens completely.
9. Press and hold the button until the platform is in the fully up position.
10. Make sure the platform moves smoothly to the fully up position.

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11. Press and hold the button until the lip is fully extended.
12. Make sure the lip moves smoothly to the fully extended position.
13. Turn the main switch to the "O-OFF" position.
14. Make sure:
    - If a shelter is connected that the blower stops blowing
    - If a door is connected that the door stays open.
15. Release the button.
16. Make sure:
    - The platform stays in the fully up position
    - The lip stays fully extended.
17. Turn the main switch to the"1-ON" position.
18. Make sure:
    - The platform stays in the fully up position
    - The lip stays fully extended.
19. If available press and release the or or button and make sure:
    - The shelter inflates completely
    - If the door is driven by a CDM9 the door goes down and up for approximately 20 cm.
20. Press and hold the button until the lip is fully retracted.
21. Release the button.
22. Make sure:
    - The platform moves smoothly to the cross-traffic position
    - The lip moves smoothly to the fully retracted position.
23. Press and hold the button until the platform is in the fully up position.
24. Press and hold the button until the lip is fully extended.
25. Release the button and wait until the platform is in the fully down position and the lip is fully extended.
26. If available press and release the or button and make sure:
    - The platform moves smoothly to the cross-traffic position.
    - The lip moves smoothly to the fully retracted position.
    - The door closes.
27. If available press and release the or button and make sure that the door movement stops.

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28. Press and release the or or or button to return the dock leveller to cross traffic position and if available close the door and deflate the shelter in one manoeuvre.
29. Make sure:
    - The platform moves smoothly to the cross-traffic position.
    - The lip moves smoothly to the fully retracted position.
    - The door closes completely.
    - The shelter deflates completely.

6.3 Functional test with 950 docking control system ES

1. Connect the main electrical supply to the dock leveller.
2. Press the emergency stop button.
3. If available press and release the or or button and make sure:
    - The shelter does not inflate
    - The door stays closed.
4. Press the button.
5. Make sure:
    - The hydraulic unit does not start
    - The platform does not move.
6. Turn the emergency stop button 90° clockwise to reset the emergency stop button.
7. If available press and release the or or button and make sure:
    - The shelter inflates completely
    - The door opens afterwards.
8. If available press and release the or button and make sure that the door movement stops.
9. If available press and release the or button and make sure that the door opens completely.
10. Press and hold the button until the platform is in the fully up position.
11. Make sure the platform moves smoothly to the fully up position.
12. Press and hold the button until the lip is fully extended.
13. Make sure the lip moves smoothly to the fully extended position.

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14. Press the emergency stop button.
15. Make sure:
    - If a shelter is connected that the blower stops blowing
    - If a door is connected that the door stays open.
16. Release the button.
17. Make sure:
    - The platform stays in the fully up position
    - The lip stays fully extended.
18. Turn the emergency stop button 90° clockwise to reset the emergency stop button.
19. Make sure:
    - The platform stays in the fully up position
    - The lip stays fully extended.
20. If available press and release the or or button and make sure:
    - The shelter inflates completely
    - If the door is driven by a CDM9 the door goes down and up for approximately 20 cm.
21. Press and hold the button until the lip is fully retracted.
22. Release the button.
23. Make sure:
    - The platform moves smoothly to the cross-traffic position
    - The lip moves smoothly to the fully retracted position.
24. Press and hold the button until the platform is in the fully up position.
25. Press and hold the button until the lip is fully extended.
26. Release the button and wait until the platform is in the fully down position and the lip is fully extended.
27. If available press and release the or button and make sure:
    - The platform moves smoothly to the cross-traffic position.
    - The lip moves smoothly to the fully retracted position.
    - The door closes.
28. If available press and release the or button and make sure that the door movement stops.

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29. Press and release the or or or button to return the dock leveller to cross traffic position and if available close the door and deflate the shelter in one manoeuvre.
30. Make sure:
    - The platform moves smoothly to the cross-traffic position.
    - The lip moves smoothly to the fully retracted position.
    - The door closes completely.
    - The shelter deflates completely.

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7. Troubleshooting

7.1 Introduction

This chapter contains troubleshooting information for users of the Crawford dock leveller. If a fault is not described in this chapter contact the local service centre for assistance.

7.2 Platform

7.2.1 Platform does not go up

7.2.1.1 Platform does not go up and electric motor does not operate (operator)

Possible Cause	Solution
No main electrical supply	Switch on main electrical supply
docking control system MS: Main switch in "O-OFF" position	Turn the main switch to the "1-ON" position
docking control system ES: Emergency stop button pressed in	Turn the emergency stop button 90° clockwise
Fuse in control unit blown	Contact the local service centre

7.2.1.2 Platform does not go up and electric motor operates (operator)

Possible Cause	Solution
Load on the dock leveller	Remove the load
Mechanical obstruction	Remove the obstruction
Hydraulic fluid level too low	Contact the local service centre
Leak in the hydraulic system	Contact the local service centre

7.2.1.3 Platform does not go up smoothly (operator)

Possible Cause	Solution
Dock leveller damaged	Contact the local service centre
Platform hinge jammed	Clean and lubricate the hinges
Lift cylinders damaged	Contact the local service centre

7.2.1.4 Platform does not go up to top limit (operator)

Possible Cause	Solution
Mechanical obstruction	Remove the obstruction (page 23)
Hydraulic fluid level too low	Contact the local service centre
Hydraulic unit malfunctioning	Contact the loacal service centre

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7.2.2 Platform does not go down

7.2.2.1 Platform does not go down and electric motor does not operate

Possible Cause	Solution
No main electrical supply	Switch on main electrical supply
docking control system MS: Main switch in "O-OFF" position	Turn the main switch to the "1-ON" position
docking control system ES: Emergency stop button pressed in	Turn the emergency stop button 90° clockwise
Fuse in control unit blown	Contact the local service centre

7.2.2.2 Platform goes down when electrical isolation switch set to OFF (operator)

Possible Cause	Solution
Leak in the hydraulic system	Contact the local service centre

7.3 Telescopic Lip

7.3.1 Telescopic Lip does not extend (operator)

Possible Cause	Solution
Mechanical blockage	Remove the blockage (page 23)
Hydraulic fluid level too low	Contact the local service centre
Leak in the hydraulic system	Contact the local service centre

7.3.2 Telescopic Lip does not retract (operator)

Possible Cause	Solution
Mechanical blockage	Remove the blockage (page 23)
Failure in the hydraulic system	Contact the local service centre

7.4 List of error codes

If there is an error in the system, read the error code from the 3-digit display and report this to your local service centre.

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Declaration of conformity

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Crawford Group AB
Roskildevägen, 1
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EC Declaration of Conformity
as defined by Machinery Directive 2006/42/EC
Annex II A
Running No. CE 0001

Herewith we declare
that the conception and the construction as well as the version of the following machine we market correspond to the relevant fundamental standards of the EC directive concerning safety and health. In the case of alterations made on our machine without our approval this declaration will be no longer valid.

Designation of the machine:	Crawford 620 Teledock
Machine type:	Hydraulic Dock Leveller with Telescopic Lip
No. of series:	A4100125 A4100126
Relevant EC directives:	EC Machinery Directive (2006/42/EC)
Applied harmonized standards in particular:	EN 1398 "Dock Leveller" EN ISO 12100-1 EN ISO 12100-2 EN 349 EN 60204-1
Authorities can send inquiries related to the technical file to:	Crawford hafa GmbH Jörg Bremer Gottlieb-Daimler-Str. 12/21 D-30974 Wennigsen

Parets del Vallés, February 22nd, 2010

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Managing Director

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Herewith we declare
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Designation of the machine:	Crawford 620 Teledock
Machine type:	Hydraulic Dock Leveller with Telescopic Lip
No. of series:	A4100107 A4100108
Relevant EC directives:	EC Machinery Directive (2006/42/EC)
Applied harmonized standards in particular:	EN 1398 "Dock Leveller" EN ISO 12100-1 EN ISO 12100-2 EN 349 EN 60204-1
Authorities can send inquiries related to the technical file to:	Crawford hafa GmbH Jörg Bremer Gottlieb-Daimler-Str. 12/21 D-30974 Wennigsen

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Designation of the machine:	621 Autodock T
Machine type:	Hydraulic Autodock with Telescopic Lip
No. of series:	L0900153
Relevant EC directives:	EC Machinery Directive (2006/42/EC)
Applied harmonized standards in particular:	EN 1398 "Dock Leveller" EN 12100-1 EN 12100-2 EN 349 EN 60204-1
Authorities can send inquiries related to the technical file to:	Crawford hafa GmbH Jörg Bremer Gottlieb-Daimler-Str. 12/21 D-30974 Wennigsen

Parets del Vallés, May 10th, 2010

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Herewith we declare
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Designation of the machine:	Crawford 622 Ergodock
Machine type:	Hydraulic Dock Leveller with Telescopic Lip
No. of series:	A4100127
Relevant EC directives:	EC Machinery Directive (2006/42/EC)
Applied harmonized standards in particular:	EN 1398 "Dock Leveller" EN ISO 12100-1 EN ISO 12100-2 EN 349 EN 60204-1
Authorities can send inquiries related to the technical file to:	Crawford hafa GmbH Jörg Bremer Gottlieb-Daimler-Str. 12/21 D-30974 Wennigsen

Parets del Vallés, May 10th, 2010

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Herewith we declare
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Designation of the machine:	623 Autodock E
Machine type:	Hydraulic Autodock with Telescopic Lip
No. of series:	L0900152
Relevant EC directives:	EC Machinery Directive (2006/42/EC)
Applied harmonized standards in particular:	EN 1398 "Dock Leveller" EN ISO 12100-1 EN ISO 12100-2 EN 349 EN 60204-1
Authorities can send inquiries related to the technical file to:	Crawford hafa GmbH Jörg Bremer Gottlieb-Daimler-Str. 12/21 D-30974 Wennigsen

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Herewith we declare
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Designation of the machine:	Crawford 624 Isodock
Machine type:	Hydraulic Dock Leveller with Telescopic Lip
No. of series:	A4100124
Relevant EC directives:	EC Machinery Directive (2006/42/EC)
Applied harmonized standards in particular:	EN 1398 "Dock Leveller" EN ISO 12100-1 EN ISO 12100-2 EN 349 EN 60204-1
Authorities can send inquiries related to the technical file to:	Crawford hafa GmbH Jörg Bremer Gottlieb-Daimler-Str. 12/21 D-30974 Wennigsen

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EC Declaration of Conformity
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Annex II A
Running No. CE 0010

Herewith we declare
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Designation of the machine:	Crawford 625 Teledock 100kN
Machine type:	Hydraulic Dock Leveller with Telescopic Lip
No. of series:	A4010189
Relevant EC directives:	EC Machinery Directive (2006/42/EC)
Applied harmonized standards in particular:	EN 1398 "Dock Leveller" EN ISO 12100-1 EN ISO 12100-2 EN 349 EN 60204-1
Authorities can send inquiries related to the technical file to:	Crawford hafa GmbH Jörg Bremer Gottlieb-Daimler-Str. 12/21 D-30974 Wennigsen

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Crawford is a leading international provider of door and logistics solutions. The carefully selected programme of doors and dock loading equipment, combined with profound application know-how and an unparalleled service offering, is the reason why more than a million customers have chosen Crawford as the preferred supplier for trouble-free operation around the clock.

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